Toxicology, 68 (1991) 355–356
Elsevier Scientific Publishers Ireland Ltd.

TOXICOLOGY

VOLUME CONTENTS

Volume 68 (1991)

Metabolic activation of the organophosphorus insecticides chlorpyrifos and fenitrothion by perfused rat liver **(The difference in acute toxicity of the two insecticides in male and female rats cannot be explained by hepatic activation)**
by L.G. Sultatos (Newark, NJ) ..... 1—9

Inhibitory effect of rhodamine B on the proliferation of human lip fibroblasts in culture **(The number of cells decreased and incorporation of thymidine into DNA was reduced)**
by T. Kaji, T. Kawashima, M. Sakamoto, Y. Kurashige and F. Koizumi (Kanazawa, Toyama, Japan) ..... 11—20

Preclinical toxicity studies of an adenosine agonist, *N*-(2,2-diphenylethyl) adenosine **(Adverse effects in several laboratory species are reported)**
by G.E. Macallum, R.M. Walker, N.J. Barsoum and G.S. Smith (Mississauga, Canada) ..... 21—35

Cytotoxicity of myeloperoxidase-activated catechols: oxidative injury to the red blood cell **(1,2-Benzenediol and nordihydroguaiaretic acid are oxidatively activated to cytotoxic intermediates)**
by J.M. van Zyl, K. Basson, A. Kriegler and B.J. van der Walt (Tygerberg, South Africa) ..... 37—49

Comparison of in vivo cholinesterase inhibition in neonatal and adult rats by three organophosphorothioate insecticides **(Neonatal rats are more sensitive to acute lethality)**
by C.N. Pope, T.K. Chakraborti, M.L. Chapman, J.D. Farrar and D. Arthun (Monroe, LA) ..... 51—61

Effect of manganese (II) bis(glycinate)dichloride on Ca^{2+} channel function in cultured chick atrial cells **(At high concentrations, $Mn(glycinate)_2$ interferes with the function of L-type Ca channels)**
by W. Tan, J.V. Barnett, G.M. Hehn, S.C. Quay and J.B. Galper (Sunnyvale, CA) ..... 63—73

The effect of toluene on rat lung benzo[*a*]pyrene metabolism and microsomal membrane lipids **(Toluene reduced pulmonary cytochrome *P*-450 content and decreased aryl hydrocarbon hydroxylase activity)**
by G.M. Furman, D.M. Silverman and R.A. Schatz (Boston, MA) ..... 75—87

Influence of aromatic hydrocarbons on the metabolism of dichloromethane to carbon monoxide in rats **(Simultaneous or prior administration of aromatic hydrocarbons inhibits or increases metabolic carbon monoxide formation in vivo as measured by carboxyhemoglobin)**
by D. Pankow, F. Matschiner and H.-J. Weigmann (Berlin, Germany) ..... 89—100

Book Review ..... 101—102

Announcements ..... 103—105

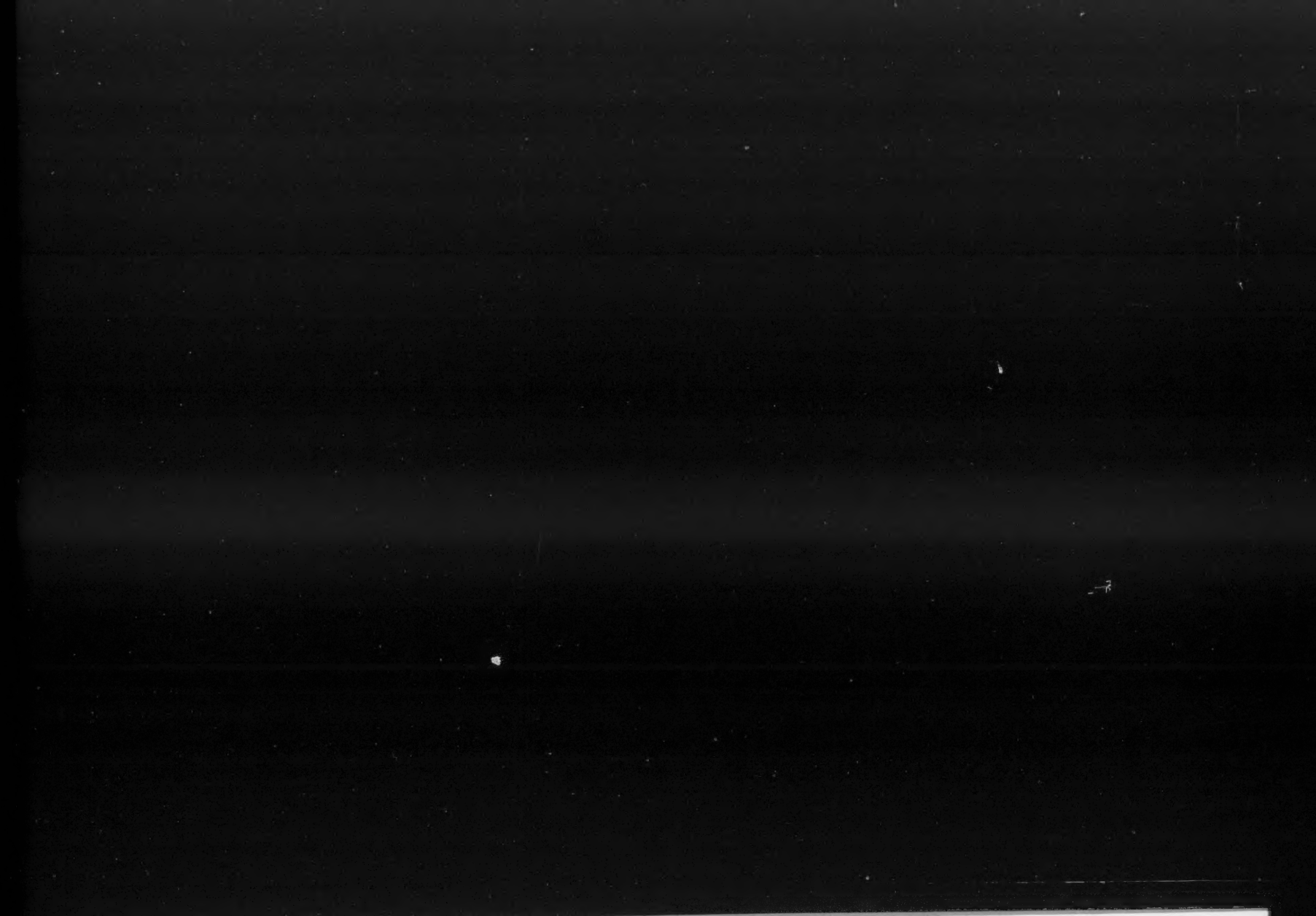
Corrigendum 107

Dichlorophenoxyacetic acid effects on polyamine biosynthesis **(Growth inhibition can be linked to alterations in polyamine metabolism)**
by V. Rivarola and H. Balegno (Córdoba, Argentina) 109–119

Dose-dependent reversal of acute murine colchicine poisoning by goat colchicine-specific Fab fragments **(Purified antigen binding fragments of goat antibodies protect mice from colchicine toxicity)**
by A. Sabouraud, M. Urtizberea, M. Grandgeorge, P. Gattel, M.E. Makula and J.M. Scherrmann (Paris and Marcy l'Etoile, France) ..... 121—132

Prevention by zinc of cadmium inhibition of stearoyl-CoA desaturase in rat liver **(Zinc is essential to protect hepatic stearoyl-CoA desaturase against Cd toxicity)**
by N. Kudo, Y. Nakagawa, K. Waku, Y. Kawashima and H. Kozuka (Kanagawa, Japan) ..... 133—142

Heated linoleic acid anilide: toxicity and relevance to toxic oil syndrome **(Further evidence to support the role of fatty anilids in toxic oil syndrome)**
by M. Firoze Khan, B.S. Kaphalia, A. Palafox, T.R. Jerrells and G.A.S. Ansari (Galveston, TX) ..... 143—155

Comparative effects of *N,N*-disubstituted dithiocarbamates on excretion and distribution of cadmium in mice **(Excretion of Cd in feces without redistribution to other tissues)**
by H. Shimada, M. Kawagoe, T. Kamenosono, M. Kiyozumi, T. Funakoshi and S. Kojima (Kumamoto, Japan) ..... 157—167

Effect of lead on TRH and GRF binding in rat anterior pituitary membranes **(Lead may inhibit receptor binding)**
by Y.-S. Lau, A.M. Camoratto, L. Muller White and C.M. Moriarty (Omaha, NE and Athens, GA) ... 169—179
Rat liver microsomal ring- and S-oxidation of thiaarenes with central or peripheral thiophene rings **(Sulfur containing polycyclic hydrocarbons undergo different metabolic pathways according to the position of the thiophen moiety within the polycyclic molecule)**
by J. Jacob, A. Schmoldt, C. Augustin, G. Raab and G. Grimmer (Großhansdorf and Hamburg, Germany) 181—194
Effect of ethanol on the induction of lung tumours by ethyl carbamate in mice **(Ethanol does not influence the rate of ethyl carbamate-induced lung tumours)**
by H.-J. Altmann, B. Dusemund, M. Goll and W. Grunow (Berlin, Germany) ..... 195—201
Book Review 203
Announcements ..... 205—206
Studies on the mechanism of bile salt-independent bile flow impairment in streptozotocin-induced hepatotoxicity **(Reduction of bile salt-independent bile flow is attributed to diminished electrolyte secretion, probably through inhibition of N^+,K^+-ATPase activity)**
by C.E. Carnovale, M.G. Roma, J.A. Monti and E.A. Rodriguez Garay (Rosario, Argentina) 207–215
In vitro metabolism and toxicity assessment of *N*-methylcarbazole in primary cultured rat hepatocytes **(Hydroxylation of *N*-methylcarbazole may represent a toxification step, while dealkylation to carbazole may be a detoxification process)**
by W. Yang, T. Jiang, P.J. Davis and D. Acosta (Austin, TX) 217–226
Relative effectiveness of some compounds for the control of cisplatin-induced nephrotoxicity **(Glutathione was most effective in protecting against nephrotoxicity and provided the least interference with antitumor effects)**
by M.M. Jones, M.A. Basinger and M.A. Holscher (Nashville, TN) 227–247
Effect of lead on the glycosaminoglycans metabolism of bovine aortic endothelial cells in culture **(Lead decreases heparan sulfate and other glycosaminoglycans without causing overt non-specific cell damage)**
by T. Kaji, C. Yamamoto and M. Sakamoto (Kanazawa, Japan) 249–257
Alterations of pulmonary benzo[*a*]pyrene metabolism by reactive oxygen metabolites **(Oxygen metabolites may slow down overall benzo[*a*]pyrene metabolism and increase accumulation of toxic metabolites)**
by N.L. Flowers and P.R. Miles (Morgantown, WV) 259–274
Short-term effects of the tumor promoting polychlorinated biphenyl mixture, Aroclor 1254, on I-compounds in liver, kidney and lung DNA of male Sprague–Dawley rats **(A correlation between the reduction of DNA-I compounds and organ-specific tumor promotion is documented)**
by R.G. Nath, E. Randerath and K. Randerath (Houston, TX) 275–289
Disposition and metabolism of [^{14}C]1,2-dichloropropane following oral and inhalation exposure in Fischer 344 rats **(Pharmacokinetics and metabolism of 1,2-dichloropropane in rats are similar regardless of route of exposure or of sex)**
by C. Timchalk, M.D. Dryzga, F.A. Smith and M.J. Bartels (Midland, MI) 291–306
N-(3,5-Dichlorophenyl)succinimide nephrotoxicity: evidence against the formation of nephrotoxic glutathione or cysteine conjugates **(No support for the hypothesis was found that glutathione or cysteine conjugates of NDPS or NDPDS metabolites are involved in nephrotoxicity)**
by G.O. Rankin, H.-C. Shih, V.J. Teets, D.J. Yang, D.W. Nicoll and P.I. Brown (Huntington, WV) ... 307–325
Lipopolysaccharide induces double-stranded DNA fragmentation in mouse thymus: protective effect of zinc pretreatment **(Exposure to Zn must precede lipopolysaccharide exposure by 48 hours in order to achieve a protective effect)**
by D.J. Thomas and T.C. Caffrey (Omaha, NE) 327–337
Contents of journals relating to Toxicology 339–347
Subject Index Volume 68 349–352
Author Index Volume 68 353
Contents Volume 68 355–356